

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/632,847

Source: _____

Date Processed by STIC: _____

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IFWO

RAW SEQUENCE LISTING

DATE: 02/16/2005

PATENT APPLICATION: US/10/632,847

TIME: 15:06:50

Input Set : N:\Crf3\RULE60\10632847.raw.txt

Output Set: N:\CRF4\02162005\J632847.raw

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1 <110> APPLICANT: BULLEID, NEIL J
2 <120> TITLE OF INVENTION: PROCOLLAGEN ASSEMBLY
3 <130> FILE REFERENCE: 39-189
4 <140> CURRENT APPLICATION NUMBER: US/10/632,847
5 <141> CURRENT FILING DATE: 2003-08-04
6 <150> PRIOR APPLICATION NUMBER: US/09/380,377
7 <151> PRIOR FILING DATE: 1999-09-16
8 <150> PRIOR APPLICATION NUMBER: 9704305.3
9 <151> PRIOR FILING DATE: 1997-03-01
10 <160> NUMBER OF SEQ ID NOS: 18
11 <170> SOFTWARE: PatentIn Ver. 2.0
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 23
15 <212> TYPE: PRT
16 <213> ORGANISM: Homo sapiens
17 <400> SEQUENCE: 1
18   Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe
19       1             5             10             15
20   Leu Arg Leu Met Ser Thr Glu
21               20
23 <210> SEQ ID NO: 2
24 <211> LENGTH: 23
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 2
28   Asn Val Glu Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe
29       1             5             10             15
30   Met Arg Leu Leu Ala Asn Tyr
31               20
33 <210> SEQ ID NO: 3
34 <211> LENGTH: 23
35 <212> TYPE: PRT
36 <213> ORGANISM: Homo sapiens
37 <400> SEQUENCE: 3
38   Gly Asp Asp Asn Leu Ala Pro Asn Thr Ala Asn Val Gln Met Thr Phe
39       1             5             10             15
40   Leu Arg Leu Leu Ser Thr Glu
41               20
43 <210> SEQ ID NO: 4
44 <211> LENGTH: 23
45 <212> TYPE: PRT
46 <213> ORGANISM: Homo sapiens
47 <400> SEQUENCE: 4

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48      Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
49      1              5              10              15
50      Leu Arg Leu Leu Ser Ser Arg
51              20
53 <210> SEQ ID NO: 5
54 <211> LENGTH: 22
55 <212> TYPE: PRT
56 <213> ORGANISM: Homo sapiens
57 <400> SEQUENCE: 5
58      Val Asp Ala Glu Gly Asn Pro Val Gly Val Val Gln Met Thr Phe Leu
59      1              5              10              15
60      Arg Leu Leu Ser Ala Ser
61              20
63 <210> SEQ ID NO: 6
64 <211> LENGTH: 22
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 6
68      Gly Asp His Gln Ser Pro Asn Thr Ala Leu Thr Gln Met Thr Phe Leu
69      1              5              10              15
70      Arg Leu Leu Ser Lys Glu
71              20
73 <210> SEQ ID NO: 7
74 <211> LENGTH: 22
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 7
78      Leu Asp Val Glu Gly Asn Ser Ile Asn Met Val Gln Met Thr Phe Leu
79      1              5              10              15
80      Lys Leu Leu Thr Ala Ser
81              20
83 <210> SEQ ID NO: 8
84 <211> LENGTH: 22
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 8
88      Val Asp Ser Glu Gly Ser Pro Val Gly Val Val Gln Leu Thr Phe Leu
89      1              5              10              15
90      Arg Leu Leu Ser Val Ser
91              20
93 <210> SEQ ID NO: 9
94 <211> LENGTH: 20
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence:RECOMBINANT
99      PRIMER
100 <400> SEQUENCE: 9
101      agatggtcgc actggacatc

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103 <210> SEQ ID NO: 10
104 <211> LENGTH: 32
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence:RECOMBINANT
109 PRIMER
110 <400> SEQUENCE: 10
111      tcgcagggat ccgtcgggtca cttgcactgg tt          32
113 <210> SEQ ID NO: 11
114 <211> LENGTH: 21
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence:RECOMBINANT
119 PRIMER
120 <400> SEQUENCE: 11
121      aatggagctc ctggacccat g                      21
123 <210> SEQ ID NO: 12
124 <211> LENGTH: 32
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence:RECOMBINANT
129 PRIMER
130 <400> SEQUENCE: 12
131      ctgctaggta ccaaattggaa ggattcagct tt          32
133 <210> SEQ ID NO: 13
134 <211> LENGTH: 21
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence:Unknown
139 <220> FEATURE:
140 <221> NAME/KEY: Unsure
141 <222> LOCATION: (13)..(18)
142 <223> OTHER INFORMATION: Xaa is any naturally occurring amino acid, or no amino acid
present
143 <400> SEQUENCE: 13
W--> 144      Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Xaa Xaa Xaa Xaa
145           1              5              10              15
146      Xaa Xaa Ser Ser Arg
147           20
149 <210> SEQ ID NO: 14
150 <211> LENGTH: 22
151 <212> TYPE: PRT
152 <213> ORGANISM: Homo sapiens
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence:Unknown
155 <220> FEATURE:

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156 <221> NAME/KEY: Unsure
157 <222> LOCATION: (13)..(19)
158 <223> OTHER INFORMATION: Xaa is any naturally occurring amino acid, or no amino acid
present
159 <400> SEQUENCE: 14
W--> 160 Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Xaa Xaa Xaa Xaa
161      1              5              10              15
162      Xaa Xaa Xaa Ser Ser Arg
163              20
165 <210> SEQ ID NO: 15
166 <211> LENGTH: 9
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 15
170      Gln Leu Ala Phe Leu Arg Leu Leu Leu
171      1              5
173 <210> SEQ ID NO: 16
174 <211> LENGTH: 250
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 16
178      Tyr Tyr Arg Ala Asp Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu
179      1              5              10              15
180      Val Asp Thr Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg
181              20              25              30
182      Ser Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu
183              35              40              45
184      Lys Met Cys His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro
185      50              55              60
186      Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu
187      65              70              75              80
188      Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys
189              85              90              95
190      Asn Trp Tyr Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe
191              100              105              110
192      Gly Glu Ser Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gly Gln Gly
193              115              120              125
194      Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met
195      130              135              140
196      Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val
197      145              150              155              160
198      Ala Tyr Met Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu Leu
199              165              170              175
200      Lys Gly Ser Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe
201              180              185              190
202      Thr Tyr Ser Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp
203              195              200              205
204      Gly Lys Thr Val Ile Glu Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro
205              210              215              220
206      Ile Ile Asp Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe

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Input Set : N:\Crif3\RULE60\10632847.raw.txt

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207      225      230      235      240
208      Gly Phe Asp Val Gly Pro Val Cys Phe Leu
209              245              250
211 <210> SEQ ID NO: 17
212 <211> LENGTH: 251
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 17
216      Phe Tyr Arg Ala Asp Gln Pro Arg Ser Ala Pro Ser Leu Arg Pro Lys
217          1          5          10          15
218      Asp Tyr Glu Val Asp Ala Thr Leu Lys Ser Leu Asn Asn Gln Ile Glu
219              20          25          30
220      Thr Leu Leu Thr Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys
221          35          40          45
222      Arg Asp Leu Arg Leu Ser His Pro Glu Trp Ser Ser Gly Tyr Tyr Trp
223          50          55          60
224      Ile Asp Pro Asn Gln Gly Cys Thr Met Glu Ala Ile Lys Val Tyr Cys
225          65          70          75          80
226      Asp Phe Pro Thr Gly Glu Thr Cys Ile Arg Ala Gln Pro Glu Asn Ile
227              85          90          95
228      Pro Ala Lys Asn Trp Tyr Arg Ser Ser Lys Asp Lys Lys His Val Trp
229              100          105          110
230      Leu Gly Glu Thr Ile Asn Ala Gly Ser Gln Phe Glu Tyr Asn Val Glu
231              115          120          125
232      Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe Met Arg Leu
233          130          135          140
234      Leu Ala Asn Tyr Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser
235          145          150          155          160
236      Ile Ala Tyr Met Asp Glu Glu Thr Gly Asn Leu Lys Lys Ala Val Ile
237              165          170          175
238      Leu Gln Gly Ser Asn Asp Val Glu Leu Val Ala Glu Gly Asn Ser Arg
239              180          185          190
240      Phe Thr Tyr Thr Val Leu Val Asp Gly Cys Ser Lys Lys Thr Asn Glu
241              195          200          205
242      Trp Gly Lys Thr Ile Ile Glu Tyr Lys Thr Asn Lys Pro Ser Arg Leu
243          210          215          220
244      Pro Phe Leu Asp Ile Ala Pro Leu Asp Ile Gly Gly Ala Asp His Glu
245      225      230      235      240
246      Phe Phe Val Asp Ile Gly Pro Val Cys Phe Lys
247              245          250
249 <210> SEQ ID NO: 18
250 <211> LENGTH: 248
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 18
254      Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys Ile Asn Thr Asp Glu Ile
255          1          5          10          15
256      Met Thr Ser Leu Lys Ser Val Asn Gly Gln Ile Glu Ser Leu Ile Ser
257              20          25          30

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/632,847

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Input Set : N:\Crf3\RULE60\10632847.raw.txt
Output Set: N:\CRF4\02162005\J632847.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 13,14,15,16,17,18

Seq#:14; Xaa Pos. 13,14,15,16,17,18,19

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:13; Line(s) 142

Seq#:14; Line(s) 158

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/632,847

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TIME: 15:06:51

Input Set : N:\Crf3\RULE60\10632847.raw.txt

Output Set: N:\CRF4\02162005\J632847.raw

L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

M:341 Repeated in SeqNo=13

L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

M:341 Repeated in SeqNo=14